EXPRESS TERMS WITH 15-DAY MODIFICATIONS OF PROPOSED BUILDING STANDARDS OF THE CALIFORNIA BUILDING STANDARDS COMMISSION

REGARDING THE CALIFORNIA BUILDING CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2

(The State agency shall draft the regulations in plain, straightforward language, avoiding technical terms as much as possible and using a coherent and easily readable style. The agency shall draft the regulation in plain English. A notation shall follow the express terms of each regulation listing the specific statutes authorizing the adoption and listing specific statutes being implemented, interpreted, or made specific. (PART 1 – ADMINISTRATIVE CODE)

LEGEND FOR EXPRESS TERMS

- 1. 15-Day new California language: All such language appear double underlined.
- 2. Repealed 15-Day text: All such language appears in double strickout.

EXPRESS TERMS

CHAPTER 16 – STRUCTURAL DESIGN REQUIREMENTS

TABLE 16-N – STRUCTURAL SYSTEMS ¹
(For Occupancies regulated by BSC use Table 16.1-N)

TABLE 16.1-N - [For BSC] STRUCTURAL SYSTEMS 1

BASIC STRUCTURAL SYSTEM ²	LATERAL-FORCE-RESISTING SYSTEM DESCRIPTION	R	Ωο	HEIGHT LIMIT FOR SEISMIC ZONES 3 AND 4 (feet) x 304.8 for mm
Bearing wall system	Light-framed walls with shear panels		0.0	05
	a. Wood structural panel walls for	5.5	2.8	65
	structures three stories or less	4.5	2.0	G.F.
	b. All other light-framed walls 2. Shear walls	4.5	2.8	65
	a. Concrete	4.5	2.8	160
	b. Masonry	4.5	2.8	160
	Light steel-framed bearing walls with	2.8	2.2	65
	tension-only bracing			
	4. Braced frames where bracing carries			
	gravity load	4.4	2.2	160
	a. Steel	2.8	2.2	-
	b. Concrete ³	2.8	2.2	65
	c. Heavy timber			

Building frame	Steel eccentrically braced frame (EBF) Light framed walls with cheer people.	7.0	2.8	240
system	Light-framed walls with shear panels. a. Wood structural panel walls for	6.5	2.8	65
	structures three stories or less	0.0	2.0	00
	b. All other light-framed walls	5.0	2.8	65
	3. Shear walls			
	a. Concrete	5.5	2.8	240
	b. Masonry	5.5	2.8	160
	4. Ordinary braced frames a. Steel ⁶	5.5.6		35 ⁶
	b. Concrete ³	5 5.6 5.6	2	35
	c. Heavy timber	5.6	2.2	- 65
	Special concentrically braced frames	0.0	2.2	00
	a. Steel	6.4		240
			2.2	
3. Moment-resisting	Special moment-resisting frame (SMRF)			
frame system	a. Steel	8.5	2.8	N.L.
	b. Concrete ⁴	8.5	2.8	N.L.
	Masonry moment-resisting wall frame	6.5	2.8	160
	(MMRWF)			
	3. Intermediate moment-resisting frame (IMRF)	4.5	2.8	35^6
	a. Steel ⁶	5.5	2.8	-
	b. Concrete ⁵	0.0	2.0	
	4. Ordinary moment-resisting frame (OMRF)	3.5	2.8	<u>-6 6.2</u>
	a. Steel ⁶	3.5	2.8	-
	b. Concrete ⁸	6.5	2.8	240
	5. Special truss moment frames of steel			
	(STMF)			
4. Dual systems	1. Shear walls	0.5		
	a. Concrete with SMRF	8.5	2.8	N.L.
	b. Concrete with steel OMRF (Not Permitted)	4.2 6.5	2.8 2.8	160 160
	c. Concrete with concrete IMRF ⁵	5.5	2.8	160
	d. Masonry with SMRF	4.2	2.8	160
	e. Masonry with steel OMRF (Not	4.2	2.8	-
	Permitted)	6.0	2.8	160
	f. Masonry with concrete IMRF ³			
	g. Masonry with masonry MMRWF	8.5	2.8	N.L.
	2. Steel EBF	4.2	2.8	160
	a. With steel SMRF	6.5	2.0	NI I
	b. With steel OMRF (Not Permitted)3. Ordinary braced frames (Not Permitted)	6.5 4.2	2.8 2.8	N.L. 160
	a. Steel with steel SMRF	6.5	2.8	-
	b. Steel with steel OMRF	4.2	2.8	_ _
	c. Concrete with concrete SMRF ³		2.0	
	d. Concrete with concrete IMRF ³	7.5	2.8	N.L.
	Special concentrically braced frames	4.2	2.8	160
	a. Steel with steel SMRF			
	b. Steel with steel OMRF (Not Permitted)			
- O ("	5. Steel IMRF (Not permitted)			0.5 ⁷
5. Cantilevered	Cantilevered column elements	2.2	2.0	35 ⁷
column building				
systems	I	I	1 1	

6. Shear wall-frame interaction systems	1. Concrete ⁸	5.5	2.8	160
7. Undefined systems	See Section 1629.6.7 and 1629.9.2	-	-	-

N.L.- no limit

Notation

Authority: [Health and Safety Code, Section 18934.5]

Reference(s): [Health and Safety Code, Sections 18928 & 18934.5]

2212B - AMENDMENTS

The AISC-Seismic adopted by this Division apply to the seismic...

1. Part I, Sec. 1. of the AISC Seismic Provisions is revised as follows:

1. SCOPE

These provisions are intended for the design and construction of structural steel members and connections in the Seismic...

... to this Part, and Appendix S.

2. Part I, Sec. 4.1. of the AISC Seismic Provisions is deleted and replaced as follows:

4.1 Loads and Load Combinations

The loads and load combinations shall...

Exception: the load factor on L in load combination 4-1 shall be equal to 1.0 for garages, areas occupied as places of public assembly and all areas where the live load is greater than 100 psf.

2215B - AMENDMENTS

The AISC-Seismic adopted by this Division apply to the seismic...

1. Part III, Sec. 1. of the AISC Seismic Provisions is revised as follows:

1. SCOPE

These provisions are intended for the design and construction of structural steel members and connections in the Seismic Force...

¹ See Section 1630.4 for combination of structural systems.

² Basic structural systems are defined in Section 1629.6.

³ Prohibited in Seismic Zones 3 and 4.

⁴ Includes precast concrete conforming to Section 1921.2.7.

⁵ Prohibited in Seismic Zones 3 and 4, except as permitted in Section 1634.2.

⁶Unless otherwise approved by the enforcement agency, in Seismic Zone 4:

Steel IMRF are permitted for buildings 35 ft. or less in height and the dead load of the roof, walls or floors not exceeding 35 psf each; or for single-story buildings 60 ft. or less in height with dead load of the roof or walls not exceeding 15 psf each where the moment joints of field connections are constructed of bolted end plates; or single-family dwellings using light frame construction with R = 3.0 and Ω_0 = 2.2.

^{6.2} Steel OMRF are permitted for buildings 35 ft or less in height with the dead load of the roof, walls or floors not exceeding 15 psf each; or single-story buildings 60 ft or less in height with the dead load of the roof or walls not exceeding 15 psf each and where the moment joints of field connections are constructed of bolted end plates.

^{6.3} Steel Ordinary Braced Frames are permitted for buildings 35 ft or less in height; or penthouse structures; or single-story buildings 60 ft or less in height with the dead load of the roof or walls not exceeding 15 psf. each.

⁷ Total height of the building including cantilevered columns.

⁸ Prohibited in Seismic Zones 2A, 2B, 3 and 4. See Section 1633.2.7.

...applicable to this Part, and Appendix S.

2. Part III, Sec. 4.1. of the AISC Seismic Provisions is deleted and replaced as follows:

2.1 Loads and Load Combinations

The loads and load combinations shall be those in...

Exception: the load factor on L in load combination 4-1 shall be equal to 1.0 for garages, areas occupied as places of public assembly and all areas where the live load is greater than 100 psf.

CHAPTER 23 – WOOD

Division III -DESIGN SPECIFICATIONS FOR ALLOWABLE STRESS DESIGN OF WOOD BUILDINGS

Part I – ALLOWABLE STRESS DESIGN OF WOOD

This standard, with certain exceptions, is the ANSI/NFoPA NDS-91 [For BSC, NDS-97] National Design Specification for Wood Construction of the American Forest and Paper Association, 1991 Edition, and the Supplement to the 1991 Edition, [For BSC, NDS-97] National Design Specification, adopted by reference.

The National Design Specification for Wood Construction, 1991 Edition, [*For BSC, NDS-97*] and supplement are available from the American Forest and Paper Association, 1111 19th Street, NW, Eighth Floor, Washington, DC, 20036.

SECTION 2316 - DESIGN SPECIFICATIONS

2316.1 Adoption and Scope. The National Design Specification for Wood Construction, 1991 Edition (NDS), [For BSC, 1997 Edition (NDS) as amended by Sec. 2316.2] which is hereby adopted [For BSC except for item 14, 26 & 27] as a part of this code, shall apply to the design and construction of wood structures using visually graded lumber, mechanically graded lumber, structural glued laminated timber, and timber piles. National Design Specifications Appendix Section F, Design for Creep and Critical Deflection Applications, Appendix Section G, Effective Column Length, and Appendix Section J, Solution of Hankinson Formula are specifically adopted and made a part of this standard. The Supplement to the 1991 Edition National Design Specification, [For BSC, NDS-97] Tables 2A, 4A, 4B, 4C, 4D, 4E, 5A, 5B and 5C are specifically adopted and made a part of this standard.

Other codes, standards or specifications referred to in this standard are to be considered as only an indication of an acceptable method or material that can be used with the approval of the building official, except where such other codes, standards or specifications are specifically adopted by this code as primary standards.

2316.2 Amendments. ...

Notation

Authority: [Health and Safety Code, Section 18934.5]

Reference(s): [Health and Safety Code, Sections 18928 & 18934.5]